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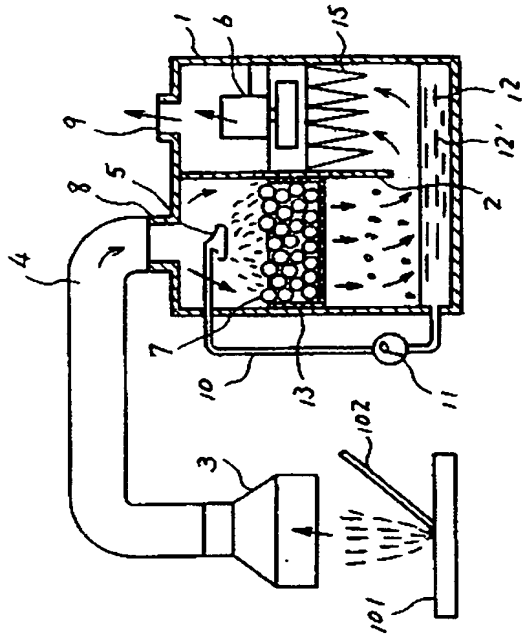
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APPLICANT : HITACHI LTD;

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TITLE : DUST COLLECTOR



ABSTRACT : PURPOSE: To obtain a dust collector having good dust collection efficiency of dust accompanying a spark or fine dust, by providing a container equipped with a liquid sprayer and receiving a large number of solid packing materials to the front stage of a filter part.

CONSTITUTION: Fine dust generated by arc welding is introduced into a main body 1 through a hood 3 and exposed to the shower liquid 12' sprayed from a shower nozzle 5 immediately before reaches a packed filter box 13 to be brought to a wetted state. Further, said dust is inhibited from discharge because of narrow gaps between packing materials 7 and the surface tension of the shower liquid 12' and the solid substance in the dust is adsorbed between packing materials. Subsequently, extremely fine dust is sucked by an electric fan 6 and perfectly collected in a bag filter 15. When a fireball was sucked, heat is absorbed by a mist like liquid and, therefore, there is no possibility of ignition of the collected matter and collection efficiency can be enhanced.

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